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03/14/2012

**When Biotechnology Meets Dry Odor Control Technologies**

***Purafil's New Biological Air Treater Offers High Performance Fixed-film Trickling Filter***

**DORAVILLE, GA** – As biotechnologies are fast developing, more filtration systems are using it to overcome air challenges. Biofiltration systems are fairly simple to operate and offer cost-effective solutions for treating malodorous compounds and water-soluble volatile organic compounds (VOCs). For odor removal applications, biofilters rely on a biofilm and the bacterial action in their recirculating waters to properly function; whereas most biofilters are challenged to maintain proper moisture and reduce pressure drops, Purafil's new Biological Air Treater (BAT) offers the solution to optimum biotrickling filter operation.

Purafil combined its innovative efforts with Honeywell Process Solutions and came up with an advanced proprietary fixed-film biotrickling filter technology. The BAT's media consists of proprietary blends of specially formulated polyurethane foam cubes and polypropylene spacers. Customized blends of the foam cubes and spacers reduce the BAT's pressure drop, while the optional usage of Purafil's dry media in its polishing phase, offers higher removal efficiency. Purafil media provides the highest amount of permanganate for increased capacity and does not off-gas like carbon products. The low maintenance system offers cost-effective odor abatement and VOC treatment.

The BAT can be used to remove inorganic and organic compounds, sulfuric and nitrogenous compounds as well as oxygenated alcohols, aldehydes, esters, ethers, ketones, acids aromatics, and aliphatics. With its broad range of contaminants removal, the BAT is applicable in municipal composting and wastewater treatment plants, food and agriculture industries, chemical and pharmaceutical industries and petrochemical industries.

For over 40 years, Purafil has been the world leader in innovating, designing, engineering, and manufacturing gas-phase air filtration systems that eliminate problematic gases in the water and wastewater industries. Through its commitment to quality and customer satisfaction, Purafil earned the latest ISO 9001:2008 certification as well as numerous industry awards.

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